HAPPY NEW YEAR

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See pp 8 & 9 for **Tightwad Gazette** Notes

Reader's MAILBAG

Dear Lenny,

No, I haven't fallen by the wayside, or into a quagmire of "stuff" for my upcoming book, but have used every free minute from the shop to work on this "stuff" for the book. Tracking down outside sources of B&W photos has been like a search for an ice cube on a remote South Pacific island. Besides I have so many permissions to be obtained from publishers of my previous articles. And we have the gragantuan job of pulling out our navigational charts and charting our course over the five and a half years we sailed our wooden ketch around the world. Today is one of those mapping days.

I'm trying to wean myself away from my once trusted '89er as it sits forlornly by the side of this Panasonic. Even if I did get it repaired today, another tomorrow will come along and I'm again faced with the problem of trying to bring it back to life. (How many lives DO these wonderful old boxes have?!)

So, I'm just touching base with you. I have not "thrown out" my '89, exterior disc drive, or MX-80 printer. Time just does not allow me to pursue the repairs, and certainly I'm quite short on patience to support it. I just wish there were some one here locally who could keep it all in repairs when needed --and not at the prices some repairmen deem their "going hourly rate", even if they could repair it (which many have said they couldn't).

I know you still have my original BASIC-80 discs and I want to thank you for all the effort you have given to get me operational again on the '89er. Needless to say, I do miss the capabilities of that old grey box. Magic Wand is a great word-processing software [item] and I miss the word count that the Panasonic lacks, among many other features which produced my book--"CIRCUMNAVIGATION: Sail the Trade Winds", and two others, plus many articles. . . .

SUE MOESLY, 3760 North Highway 1, Cocoa, FL 32926; phone 407-631-7575

[Sue, baby! I haven't forgotten you or upgrading your CP/M discs to work with double-sided drives, but I have been so very busy with the blasted year-end holidays (and an #itchy# case of shingles) it has been terribly difficult to get any thing done a-tall! But that's all beginning to change now as I just finished packing your discs, ready for UPS to pick up Monday along with my brother's H100. Please forgive me for entangling and upscrewing your obviously busy schedule. When your "ole grey box" is up'n running again, things surely will improve! And do tell us more about your Panasonic whatzit--op sys, et cetera, ad lib. It may be that I have some *FREE* software you can have, if it runs MS-DOS Version 2 or higher. Nevertheless, have a Really Good and Prosperous New Year! -- ed]

Dear Lenny,

It's been quite a while since I [last] corresponded with you. I've been keeping up with the JOURNAL activities, but haven't had much time for other than to read a little of evenings. Things have been quite hectic the past few months with my radio business, and moving residences, and purchasing a new home. . . .

I believe I read in the August JOURNAL that subscriber Parks Watson said he'd like to see more HDOS stuff. As a suggestion, you had an article in the now-defunct SEXTANT March-April issue #9, pp33 - 38, a how-2 article on making your own custom forms with Benton Harbor BASIC under HDOS 2.0. It might be time for these programmes to appear again, this time in the JOURNAL. (You did keep a copy of this article on disc, didn't you?!)

It shouldn't be too difficult to get it into the pages of the JOURNAL, possibly with some modification of printer control codes to make the programmes compatible with Epson's LQ printer line. . . .

Keep up the good work, and may you have a healthy, happy, and prosperous 1992.

ALLIE C LINGO, Editor S E, P O Box 118, Dierks, AR 71833-0118

[Hey, Allie! At last count (over a year ago), I had some 999 plus hard-sector discs full of HDOS 2.0 "stuff". Some day, Real Soon Now, I'll get a chance to go through all of them and dig out the original BHBASIC programmes I put in that article. So, you're not the only one who's been busy (see my reply to Sue Moesly's letter, above). As of today, I have the following High Priority Items awaiting my tender administrations: 1) repair my "other" H100's hard drive; 2) replace the repaired D-G Super89 CPU in my "other" H90; 3) rearrange my computer room layout (now that the Canon NP155 copier is finally gone); 4) sort, categorise, and catalogue ALL my floppy discs and put them in ONE easily accessible central location! After that, I shall have to catch up on a lot of residential maintenance jobs...the list is endless! But your suggestion is very timely because I've been working on something along the lines of "Formz-R-Us"; your idea fits right in. I'll get something out for you to play with, Really Soon Now. (Do you still run HDOS 2.0?) -- ed]

```
================================================================
                    A NOTE TO OUR READERS:
================================================================
```

We find that we have been unknowingly printing a "how-2 fix your '89" feature similar to that which Kirk Thompson has in "The Staunch 8/89er"--the latest example is in his issue #26/27.

Because we don't want to step on anyone's toes, we'll drop this feature unless readers Absolutely Demand We Continue It. (We think Kirk's articles are much better than ours and have elaborate parts lists which include both real and Heath parts numbers--ours don't.) Please make your wishes known. . . .

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================================================================
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OSCAR'S CAI LISTINGS

Here are the final two sections of Oscar Yohai's Computer-Aided Educational Programme. Please note that you can obtain the entire set of Oscar's software on disc for U.S.$7. But, we have a VERY LIMITED supply of hard-sector discs in stock, so if you need a hard-sector copy, please send us a formatted (blank) disc so we may copy the programmes to it for the same $7 charge. Please use order blank on page 11....

```
1 REM   MULT.PRO portion of the big educational program
2 PN$ = "WELCOME TO THE MULTIPLICATION PROGRAM"
3 DT$ = "WRITTEN BY OSCAR YOHAI"
4 VN$ = "SEPTEMBER 15, 1990"
5 E$=CHR$(27):CLR$=E$+"E":VON$=E$+"p":VOF$=E$+"q"
6 X$=CHR$(105):GRON$=E$+"F":GROF$=E$+"G"
7 GOSUB 28:REM          CLEAR SCREEN
8 GOSUB 31:REM          TURN GRAPHICS ON
9 GOSUB 35:REM          PRINT TOP & BOTTOM BORDER LINES
10 N=6
11  GOSUB 40:REM        PRINT BLANK LINES
12  M$ = PN$:REM        M$ IS TEXT MATERIAL VARIABLE
13  GOSUB 46:REM        PRINT FIRST MESSAGE LINE
14  N = 2
15  GOSUB 40
16  M$ = DT$
17  GOSUB 46:REM        PRINT SECOND MESSAGE LINE
18  GOSUB 40
19  M$ = VN$
20  GOSUB 46
21  N= 3
22 GOSUB 40
23 M$=AU$
24 GOSUB 46
25 GOSUB 35
26 GOSUB 51
27 INPUT "PRESS <RETURN> TO CONTINUE ";R$:GOTO 53
28 REM                 CLEAR SCREEN
29 PRINT CLR$
30 RETURN
31 REM                 TURN GRAPHICS ON
32 PRINT GRON$
33 RETURN
34 REM
35 REM                 PRINT TOP AND BOTTOM BORDER LINES
36 PRINT VON$;SPC(70);VOF$
37 REM
38 RETURN
39 REM
40 REM                 PRINT BLANK LINES WITH OUTSIDE BORDER
41 FOR I = 1 TO N
42   PRINT VON$;" ";VOF$;SPC(66);VON$;" ";VOF$
43 NEXT I
44 RETURN
45 REM
46 REM                 PRINT  MESSAGE LINE
47  T=LEN(M$):S=(80-T)/2:REM ...... CENTERS TEXT ON SCREEN
```

```
48   PRINT VON$;SPC(2);VOF$;TAB(S-2);VON$;M$;VOF$;TAB(73);
     VON$;SPC(2);VOF$
49   RETURN
50 REM
51 REM                 TURN OFF GRAPHICS
52 PRINT GROF$
53 REM
54 PRINT:INPUT "PRESS RETURN TO CONTINUE ";Z
55 PRINT CLR$
56 M=5
57 CO=0
58 WO=0
59 DIM R$(5),N1(5),N2(5),C(5)
60 PRINT VON$;"Please type in your name ";VOF$;:INPUT N$
61 PRINT:PRINT
62 PRINT VON$;"How many digits for our examples <1> <2> ";
   VOF$;:INPUT S
63 PRINT CLR$
64 FOR I=1 TO M
65 PRINT SPC(2);VON$;I;VOF$;SPC(4)
66 NEXT I
67 PRINT:PRINT
68 REM
200 REM   *********** Data Process Subroutine ************
210 FOR I=1 TO M
220      FOR J=1 TO M
230            RANDOMIZE PEEK(11)
240            N1(J)=INT(RND*10^S)
250            IF N1(J) <=1 THEN 230
260            N2(J)=INT(RND*10^S)
270            IF N2(J) <=1 THEN 230
280      NEXT J
290      FOR J=1 TO M
300            PRINT " ";
310            FOR K=1 TO M
320              IF N1(J)>=10^(S-K) THEN 360
330              IF (S-K)+N1(J)=0 THEN 360
340            PRINT " ";
350            NEXT K
360              PRINT N1(J);TAB(J*10);
370      NEXT J
380      PRINT
390      FOR J=1 TO M
400            PRINT "x";
410              FOR K=1 TO S
420              IF N2(J)>= 10^(S-K) THEN 460
430              IF (S-K)+N2(J)=0 THEN 460
440 PRINT " ";
450      NEXT K
460              PRINT N2(J);TAB(J*10);
470      NEXT J
480      PRINT
490      FOR J=1 TO M
500            FOR K=1 TO S+3
510                PRINT "-";
```

MORE of OSCAR'S LISTING

```
520          NEXT K
530          PRINT TAB(J*10)
540      NEXT J
550      FOR J=1 TO M
560          PRINT
570      NEXT J
580 PRINT
590 FOR I=1 TO M
600 PRINT VON$;"ENTER YOUR ANSWER FOR EXAMPLE #";I;VOF$;
   :INPUT A(I):PRINT
610      IF M>5 THEN
620 NEXT I
630 PRINT :PRINT : PRINT VON$;"PRESS RETURN TO CONTINUE";
   VOF$;:INPUT Z
640 PRINT CLR$
650 REM           *********** PRINT RESULTS **************
660 PRINT
670 PRINT VON$;"
680 PRINT
690 PRINT VON$;
   "EXAMP    CORRECT ANS     YOUR ANS      RESULTS";VOF$
700 PRINT STRING$(45,"-")
710 FOR J=1 TO 5
720    C(J)=N1(J)*N2(J)
730    IF C(J)<>A(J) THEN 770
740    R$(J)="CORRECT"
750    CO=CO+1
760    GOTO 790
770    R$(J)="*WRONG*"
780    WO=WO+1
790 PRINT USING
   "##)        ####        ####        \        \";J;C(J);
   A(J);R$(J)
800 NEXT J
810    PRINT
820    PRINT
830 NEXT I
840 REM           ********* PROGRAM TERMINATION ************
850 PRINT:PRINT:PRINT VON$;"PRESS <RETURN> TO CONTINUE";VOF$;
860    INPUT Z
870 PRINT CLR$
880 PRINT VON$;"THIS IS YOUR REPORT CARD.....";N$;VOF$;
   :PRINT:PRINT
890 PRINT
900 PRINT "*    SCORE BOARD    *":PRINT
910 PRINT
920 PRINT "TOTAL # OF QUESTIONS";CO+WO
930 PRINT
940 PRINT "NUMBER CORRECT";TAB(20);CO
950 PRINT "NUMBER *WRONG*";TAB(20);WO
960 PRINT
970 PRINT VON$;"YOUR SCORE IS ****   ";
   (CO/(CO+WO))*100;VOF$;VON$;"%";VOF$
980 PRINT:PRINT
990 PRINT VON$;"PRESS <RETURN> TO CONTINUE";VOF$;:INPUT Z
```

```
1000 PRINT CLR$
1010 PRINT:PRINT:PRINT
1020 PRINT TAB(10);VON$;
   " 1> RUN MULTIPLICATION PROGRAM ";VOF$:PRINT
1030 PRINT TAB(10);VON$;
   " 2> RUN ADDITION PROGRAM ";VOF$:PRINT
1040 PRINT TAB(10);VON$;
   " 3> RUN SUBTRACTION PROGRAM ";VOF$:PRINT
1050 PRINT TAB(10);VON$;
   " 4> RUN DIVISION PROGRAM ";VOF$:PRINT
1060 PRINT TAB(10);VON$;
   " 5> RUN MULTIPLICATION TABLES DRILL ";VOF$:PRINT
1065 PRINT TAB(10);VON$;" 6> QUIT";VOF$:PRINT
1070 PRINT TAB(10);VON$;
   " Make selection <1><2><3><4><5><6> ";VOF$;:INPUT D
1080 ON D GOTO 1090,1100,1110,1120,1130,1140
1090 RUN
1100 RUN "ADD.PRO"
1110 RUN "SUB.PRO"
1120 RUN "DIV.PRO"
1130 RUN "MULTABLE.BAS"
1140 PRINT CLR$:PRINT TAB(15);VON$;
   " Well, ok then!  'BYE! ";VOF$;:SYSTEM

_____

1 REM           MULTABLE.BAS portion of the BIG programme
2 PN$ = "WELCOME TO THE"
3 DT$ = "MULTIPLICATON TABLE"
4 VN$ = "DRILL PROGRAM"
5 AU$="WRITTEN BY OSCAR YOHAI 8-25-90"
6 E$ = CHR$(27) : CLR$ = E$+"E" : VON$=E$+"p"  : VOF$=E$+"q"
7 X$ = CHR$(105) : GRON$=E$+"F"  : GROF$=E$+"G"
8 GOSUB 29:REM           CLEAR SCREEN
9 GOSUB 32:REM           TURN GRAPHICS ON
10 GOSUB 36:REM          PRINT TOP AND BOTTOM BORDER LINES
11  N=6
12  GOSUB 41:REM         PRINT BLANK LINES
13  M$ = PN$:REM         M$ IS TEXT MATERIAL VARIABLE
14  GOSUB 47:REM         PRINT FIRST MESSAGE LINE
15  N = 2
16  GOSUB 41
17  M$ = DT$
18  GOSUB 47:REM         PRINT SECOND MESSAGE LINE
19  GOSUB 41
20  M$ = VN$
21  GOSUB 47
22  N= 3
23 GOSUB 41
24 M$=AU$ .
25 GOSUB 47
26 GOSUB 36
27 GOSUB 52
28 INPUT "PRESS <RETURN> TO CONTINUE ";R$:GOTO 54
29 REM               CLEAR SCREEN
```

OSCAR'S LISTING Concluded

```
30 PRINT CLR$
31 RETURN
32 REM                 TURN ON GRAPHICS
33 PRINT GRON$
34 RETURN
35 REM
36 REM    PRINT TOP & BOTTOM LINES OF BORDER
37 PRINT VON$;SPC(70);VOF$
38 REM
39 RETURN
40 REM
41 REM              PRINT BLANK LINES WITH OUTSIDE BORDER
42 FOR I = 1 TO N
43    PRINT VON$;"  ";VOF$;SPC(66);VON$;"  ";VOF$
44 NEXT I
45 RETURN
46 REM
47 REM              PRINT  MESSAGE LINE
48   T=LEN(M$):S=(70-T)/2:REM ...... CENTERS TEXT ON SCREEN
49   PRINT VON$;SPC(2);VOF$;TAB(S-2);VON$;M$;VOF$;TAB(73);
   VON$;SPC(2);VOF$
50   RETURN
51 REM
52 REM               TURN OFF GRAPHICS
53 PRINT GROF$
54 REM
55 PRINT:INPUT "PRESS <RETURN> TO CONTINUE ";Z
56 PRINT CLR$
110 PRINT VON$;
   " YOU CAN SELECT A MULTIPLICATION TABLE TO DRILL";
   VOF$:PRINT
120 PRINT VON$;"SELECT THE TABLE YOU WANT TO DRILL (2-10)";
   VOF$;:INPUT T
130 PRINT:PRINT VON$;
   " YOU MAY GO THROUGH THE TABLE YOU CHOSE AND PRACTICE ";
   VOF$
140 PRINT:PRINT VON$;
   " BEFORE YOU TRY TO GIVE THE ANSWERS YOUR SELF ";VOF$
145 PRINT:INPUT "PRESS <RETURN> ";Z
150 PRINT CLR$
160 FOR I=1 TO 10
170 PRINT TAB(30);VON$;:   PRINT USING " ## ";I;:
   PRINT VOF$;"  ";VON$;" x ";VOF$;"  ";VON$;:
   PRINT USING " ## ";T;:PRINT VOF$;"   ";VON$;" = ";VOF$;
   "  ";VON$;I*T;VOF$
175 PRINT
180 NEXT I
200 PRINT:INPUT "PRESS <RETURN> TO CONTINUE ";Z
400 PRINT CLR$
500 FOR I = 2 TO 10
510   PRINT VON$;:
   PRINT USING "## x ## =";I;T;:PRINT VOF$;:INPUT Z
530   IF Z=I*T THEN 540 ELSE 560
540 REM
550   PRINT:GOTO 580
560   PRINT TAB(20);
   VON$;" OOOPS!  WRONG ANSWER...PRESS <RETURN> ";VOF$;:
   INPUT Z2
570   PRINT:GOTO 510
580 NEXT I
600 PRINT:PRINT VON$;" WANT TO TRY ANOTHER TABLE <Y><N>";
   VOF$;:INPUT R$
610 IF R$="Y" OR R$="y" THEN 620 ELSE 630
620 PRINT CLR$: GOTO 110
630 PRINT CLRS:PRINT:PRINT VON$;
   " THANKS FOR PRACTICING YOUR TABLES -- BYE BYE FOR NOW "
   ;VOF$
635 REM                CLEAN UP & EXIT ROUTINE
640 FOR I=1 TO 500:NEXT:
650 PRINT CLR$:SYSTEM
```

Well, there you have the entire schmateratti! Now if you,
a friend, neighbor, or even a school teacher you know has one
or more kids who need to practice their "numbers", tell 'em
that you have this jim-dandy Computer Aided Instruction
programme which runs under MBASIC on almost any 8-bit CP/M
machine. Who know, you may even become known as a Real Swell
Guy and Genuinely Peachy-Keen Fellow!

Just be sure that you write Oscar Yohai (care of the SEBHC
JOURNAL) and tell him how his programme works for you or your
chum(s). We're sure that somebody out there will eventually
find value in their otherwise dusty and languishingly-unused
Ole Grey Box....

[eof]

[Editor's note: We thank our friend, Oscar Yohai for submit-
ting this software to the public domain, and believe all our
readers will be able to get some good ideas from his tireless
labour. There still are lots of underused H/Z 8-bit machines
which, in our admittedly lop-sided opinion, are crying out to
dusted off and put back into use. For example, another SEBHC
member--Prof Stephen Kaiser--is using refurbished H/Z-89s and
'90s in two Cambridge, MA classrooms as teaching machines
(see his letter in November's JOURNAL). There is no reason
we can see--other than pure sloth--for anyone owning an all-
in-one computer to not get it working and then find it a good
home where it may be used by real people to perform real work
for less-fortunate--but likewise real--people.

Because our H/Z 8-bit machines are no longer supported by
Heath Company or Zenith Data Systems doesn't mean that they
are no longer useful. If that were true, you wouldn't be
reading this copy of the SEBHC JOURNAL which we produced with
such a no-longer-supported H89! Once built and running, your
Heathkit computer performs all the jobs its' designers had in
mind for it, until it either comes to an un-natural end or is
tossed onto a dust heap. They are professionally-designed
TOOLS, NOT toys for the superciliously-wealthy to play with,
then abandon for something touted as "newer" or "better"....]

"TRY THIS ON YOUR PIANO"

WE DON'T DO WINDOWS!
by Leonard E Geisler
Editor-Publisher, The SEBHC JOURNAL

Our eight-bit Heathkit/Zenith Data Systems machines don't do "windows".

"What are 'windows?!'"

For us 8-bit users, Real Windows are those glazed holes in the sides of our homes, offices, or other buildings which let daylight in to shine on you, or lets you look out. Often they may be opened to allow a free exchange of inside and outside air. And that's about all there is to real windows, unless you (or a maidservant) are the one who "does" (cleans) windows.

Until recently, that is. Pick up any computer magazine from your local news stand display and you will see three or more articles about the latest peesee-only software touting "windows-compatibility", or babbling on at great length about what to do with "windows". Some articles even have postage-stamp sized computer-screen reproductions of typical "windows" which attempt to illustrate what they are good for. What most of those articles don't tell you is that most "windows" software occupies lots of RAM, and that it takes a lot of time to learn how to use them--time you could more profitably use on learning more about your computer.

So what are computer "windows"? The simplest explanation we have evolved is: Graphic patterns which overlay whatever is presently on the computer screen. These patterns ("windows") usually box a list of various software functions which you may call up and run either from the keyboard or with a joystick.

Most 8-bit machines are not equipped with joysticks and if you have that exceedingly-rare bit of software which does run in a windows-like manner, you usually can access the functions listed, either by pressing one or more of the "f" keys or by chosing appropriate keypad keys.

We have a piece of eight-bit editing software which works like that: "TEXt PROcessor". This easy-to-use program puts a list of functions on line 25 of our H/Z-19 or '89/'90 screen. Selecting any of these keys results in more functions being listed for the particular key pressed. Pressing the red function key presents you with a series of single screens-full of explanations of what each function key can do for you. TEXt-PRO's help screens overlay whatever is on the screen, but when you've found the operation you needed and exit HELP, the original screen comes back. That's about as close as you can get to windows with our machines and software. And, frankly, it's about as close as I'll ever want to get to windows....

ON BUYING A HOME COMPUTER

Lots of folks have asked me for advice about buying a new home computer for working on some project or other. I guess they think I know lots about such gadgets because they know I have--and use--several. Invariably, when I say, "get a used H-89 or Z-90", they ask me what kind of machine those are, or "are they eye-bee-em compatible?", et cetera, ad nauseum.

Most of the time I don't bother to answer that kind of question directly, but rather explain to them my reasons for suggesting first off that they go for an older machine (namely that its' price certainly won't clean out one's bank account), secondly that it usually comes with a pretty good set of used software (or the seller can help them buy it Really Cheap), and often has a nice, working dot-matrix printer.

If the person is reasonable and willing to listen further, I'll go on to say that I can let them try out my own H-89 to see if it does what they think they want a computer to do. In many cases I'm able to pry out their un-expressed reasons for thinking that they Really Need A Computer, such as "I'm going to write a book", or "I'd like to keep my household accounts (or recipies) in better order". These folks show some promise, because they almost always respond positively to a trial run on my machine. And I'll show them QUERY! for data-keeping, TEXT PRO to write letters (or that "deathless prose") and a couple other simple programmes which usually take very little time and effort to learn to use. Then I explain that a setup similar to mine shouldn't cost more than a couple hundred bucks--say $400, at most--and then open a copy of "PC Computing" or "BYTE" magazine to all those pretty pictures of "compatible" machine, taking particular care to point out the prices of those "gems" and how much the software costs to do just the simple things they want to do.

Many times I've been able to steer these nice people away from their obsession with eye-bee-em computers and down to earth, especially now that most of us real people have little spare cash to toss around (the ghost of old Herbert Hoover is a-hovering in the wings, don't you know).

In those few instances that I've been unable to change their minds, I let them play with my H120 and try out Microsoft's WORD or another word processor "just to see what can be done with a more nearly eye-bee-em compatible used machine" rather than going out and spending lots of money for flashy bells, whistles, and colour glitz. Sometimes it works but mostly not because once those computer novices have looked at the fancy (expensive) machines at Sears or some other "business machines" store, they're hooked. Not especially on the software, but that the full-colour machines run those "wonderful games which our kids love so much". I'm telling you this fact: Let your kids lay hands on the new computer and you'll never get to use it. They are even more locked into the "eye-bee-em" mind-set than their parents are!

If you really want a computer which you can use any time you want or need to without prying a screaming juvenile from the keyboard, a good old H/Z-89 or Z-90 is the fer-sure cure!

NEWS FROM LINDLEY SYSTEMS!

GUEST EDITORIAL

Computer-User-Owner Related News, Views, and Hints
by
Associate Editor At Large, A Stapher

Sun City, AZ, 15-Jan-1992--Special to the SEBHC JOURNAL--Latest tax grab comes to on-line computer service usage (or, Things Are Really Tough All Over)! New York state now "requires" that all CompuServe members living in the state pay a four-percent state sales tax on all connect and on-line charges. (Yetch!) If you live in New York state, you might consider finding a different way to communicate with other hackers, say over some friendly radio amateur's Packet Network. And do pester your local and state political critters! Firmly tell them: "Taxation Is Theft!" (Well, isn't it?!)

Looking for a way to save money and make friends? Save perforated tractor strips from your printouts, bundle and give them to a friend, or a pet shop where gerbils and other pet rodents are in abundance. The squeakers love this kind of bedding, and the pet shop won't kick you out when you ask for a pet-food or toy discount. Save unsactisfactory or extra printout sheets, neatly stack and cut into quarter sections. Staple twenty or more quarter sheets into scratch pads, used side down. Handy for shopping lists, telephone jot-em pads, etc. Save your used printer-ribbon cartridges for re-inking at about a buck a piece, compared to the original cost. The nylon fabric is pretty tough; lasts through dozens of re-inkings before giving out. Do check out the newstands for a copy of "COMPUTER MONTHLY"; they have several inexpensive sources of ribbon ink listed in the back pages and want-ads section.

WARNING! DO NOT USE WD-40 or similar spray lubricants on printers or printer ribbons! It Really Gums Up Everything With Congealed Lanolin! Properly clean your printer with a squeaky-clean 1/2-inch natural bristle paint brush, soft cloths and gentle strokes. Lubricate print-head rails with sparingly-applied oderless parafin oil--which you can buy at any reputible hardware store in the lamp section. Use a non-ammonia window-cleaner-moistened paper towel (NO ALCOHOL!) to wipe down the printer's external surfaces; follow with a dry face tissue to mop up any left-over moisture. The invisible film of cleaner remaining helps reduce static buildup and finger-prints plus other unsightly crud....

Periodically go thru all the discs you've accumulated since you started computing. Set aside those which are only partially full of data; go through them later and check their contents. You'll be surprised how many copies you've saved of a particularly-useful program. DO NOT discard these discs (especially if they're hard-sector!). Do concentrate and saving their best files onto high-density 40 or 80 track hard or soft-sector discs. Use a bulk tape eraser and wipe the discs, for re-use. Soften and remove labels with sparingly-applied lighter fluid. Examine each disc's surface through the slots with glancing reflected light to see how badly worn it is. Check out a badly-scratched disc by running "INIT" & "<MEDIA CHECK?>", or "FORMAT" & "FINDBAD". More than ten errors on a disc? Discard that disc or regret it later!

Note that there are a Whole Bunch of SEBHCers out here in 8-bit land who're still using hard-sector drives, and are hoping to find sources of hard-sector discs. Run a notice in the next edition of the SEBHC JOURNAL to get those people's attention...won't cost you more than a post card to do it...and you could earn someone's lasting friendship!

Read about a very smart married couple in last September's "YANKEE" magazine--the entire issue was given over to the Joy Of Living Frugally. This couple publishes "The Tightwad Gazette" from their recycled farmhouse up there in New England. These "frugal zealots" thriftily worked themselves up to a Very Nice Income level by practicing an old-time art embodied in a motto which says: "Waste not, want not". We suggest that you check this magazine--and that article--out at your local public library. It's very good reading, and we're sure that you'll garner a whole bunch of very good ideas from it!

Essentially, what we SEBHCers are doing with our 'vintage' Heath H8 and H/Z89/90 computers is applying old time thrift. For example, our editor has spent well over $6000 in aquiring numerous Heathkit computers, sofware, and printers by which he publishes this newsletter, keeps books, compiles mailing lists, edits and rewrites letters of complaint for friends and neighbors, and Generally Just Has Fun.

He says, "I invested lots of time, hard work, and money to get these machines up and running according to factory specs. I'm not about to go out and buy (oh, that dirty word!) a new machine just because some corporate brass hat says so!"

"Now that finally all my are computers working right is no excuse to toss them out and buy some stinkingly-expensive yuppy-gadget!" says Len Geisler, editor and publisher of the SEBHC JOURNAL, a privately-circulated 'vintage computer' user's newsletter.

"Every day I get enquiries from people who think they want (or need) a computer. In each instance I try to discourage them from wasting money on some high-priced whizz-bang gadget which some well-intentioned friend has recommended they buy. What I do is explain the economics of starting with something old but good, learning what that older computer can do, and then go look at what's available in later (maybe peesee compatible) machines. After that, it's up to them to compare the cost of what they have with what's available, does the same job, and allows wider choice of 'bells & whistles' software. An old-timer once said to me, 'Why send a man in a big limosine to the corner store for a newspaper when a boy on a bicycle does it faster and cheaper?!'"

FOR SALE / MISC NOTES

MISC NOTE #1

On page 8 of this edition our Associate Editor At Large, A Stapher, briefly described what we think is a most worthy companion in the thrift newsletter field, namely The Tightwad Gazette. We think many of our JOURNAL readers can get a lot of good ideas from The Gazette, so here's their address and subscription information:

> The Tightwad Gazette
> RR1 Box 3570
> Leeds, ME 04263

Send your name and address with US$12 for a full year subscription, one copy every month. (Please mention you saw The Gazette mentioned in the SEBHC JOURNAL.) Also note that they are looking for thrifty, money-saving ideas, and will reward any accepted article's author with a free 1-year subscription as payment, just like the SEBHC JOURNAL does!

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T TO BUY...   RENT TO BUY...   RENT TO BUY...   RENT TO BUY..
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Offer Number One--
   A basic office computer setup, consisting of the following equipment:

   Z90 computer with 2/4 Mc/Sec D-G Super89 CPU and full 256k RAM, two internal 1/2-ht floppies, EPSON MX-80 printer w/Dots Perfect upgrade, choice of Magic Wand word processor or TeXT PROcessor, choice of ZENCalc or SUPERCALC spreadsheet, QUERY!3 database w/report-writer and calculator functions, registered CP/M-80 operating system, and is complete with all manuals, cables, free setup, one box of 10 blank soft-sector discs, and ten hours of onsite help/training (within 50 miles radius of Ann Arbor, MI.) Thrifty monthly rental (minimum contract 6 months), only:
> Twenty-five Dollars!
> (plus $200 refundable initial deposit)

Offer Number Two--
   Standard H90 (64k ram) computer with two internal floppy drives, choice of Magic Wand or TeXT PROcessor, ZENcalc or SUPERCALC spreadsheet, QUERY!3 database (as above) & CP/M-80 operating system, manuals, cables, EPSON RX-80 printer, discs, free setup and same onsite help/training as in above Offer No. One. Thrifty monthly rental (minimum contract 6 months), only:
> Twenty Dollars!
> (plus $100 refundable initial deposit)

Note: To rent or make an outright purchase of either/both computers, contact L Geisler, 895 Starwick Drive, Ann Arbor, MI 48105; phone 313-662-0750, 10am - 5pm EST weekdays only.
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YOUR H/Z-8-BIT MACHINE CAN NOW BE YOUR WHOLE-HOUSE GUARDIAN!

(See your Heathkit Catalogue for X-10 modules and prices.)

RICK SWENTON's X10.COM, CP-290 Interface Software for CP/M is available from the SEBHC JOURNAL for use on any H/Z 8-bit system. This package contains the instruction manual and one H-37 floppy disc (hard-sector by special order only) at $7 postpaid. Here is a list of the X10 COM files on the distribution disc and what systems they'll work with:

Note: X10 under ZCPR3 will use the current system TCAP. Under CP/M, X10 will use its own internal 'fake' ZCPR3 ENV and TCAP. Terminals below are internal to X10 and are only in effect under plain CP/M.

These files are found in the library X10Cnnnn.LBR where nnnn is the version/release number. (X10C3012.LBR is Version 3.0 release 12)

X10.WS	- The User's Guide (Manual)
X10-H320.COM	- Heath H8/H89 port 320 (Heath H19 Terminal)
X10-H330.COM	- Heath H8/H89 port 330 (Heath H19 Terminal)
X10-H340.COM	- Heath H8/H89 port 340 (Heath H19 Terminal)
X10-KP2.COM	- Kaypro-II
X10-KP4.COM	- Kaypro-4
X10-SB1.COM	- Micromint SB-180 (This computer uses Z-System)
X10-LB1.COM	- Ampro Z80 Little Board w/Heath-19 Terminal

ZCPR3 Extended TCAP Files (Supports VLIB Graphics)

H19.Z3T	- Heath H19
KP-2.Z3T	- Kaypro-II
KP-4.Z3T	- Kaypro-4

Source code for X10 and the Overlays/TCAPs can be found in the library X10Snnnn.LBR.

The X-10 system is a comprehensive system of plug-in and wireless components which let you control lights and appliances from anywhere in your house or apartment from a central command center. This programmable command center sends digital signals over the existing residential power lines and are received by control modules installed at points where control is to be exercised. Any lamp or appliance plugged in to one of these special modules or outlets can then be operated from a hand-held, desktop, computer, or telephone command center. If you need more X-10 information, please call Heath Company at 1-800-253-0570 and ask for a BC-290-H data sheet.

EIGHT-BIT & "OTHER" VENDOR LIST

==> EIGHT-BIT SOURCES, SERVICES, and VENDOR DIRECTORY <==

Listing last updated on 28 January 1992

CDR SYSTEMS, Inc., 7171 Ronson Road, San Diego, CA 92111; ph: 619-560-1272, 9a-5p Pacific Time Zone--ask for Herman.

Chalfant, Rick, 100 Bayberry Drive, Springboro, OH 45066; ph 513-748-1344 Stocks H/Z89s, parts, software. Check him out; you might be pleasantly surprised!

D-G ELECTRONIC DEVELOPMENTS Co., 700 S Armstrong, Denison TX 75020; ** phone 903-465-7805 (Central Time Zone) ** 8-bit "Heartbeat" computer, 8-bit "Super89" CPU upgrade/replacement board. Bruce Denton, president; Service & advice available, also GOOD H8 and H/Z89 hardware at clearance prices; contact Bruce for details. A *Certified* YOU-BETCHA GOOD GUY!

DISK MOVERS, 8534 McCormick Blvd, Skokie, IL 60076; phone 708-679-3727 (Central Time Zone)--ask for Miriam. HARD-SECTOR and soft-sector discs for H/Z8s, '89s in bulk quantities at very low prices! "VERY NICE and HELP-FUL PEOPLE." (Do give them a call and mention us!)

GOLDSMITH SURPLUS, 2107 N Adams/PO Box 18676, Indianapolis, IN 46218; 317-545-4747, ask for Phil or Eric.   Dealers in "Almost Any Surplus Material You Have (or Need)"! (Please mention that you found them listed here!)

HOYLE & HOYLE SOFTWARE, 111 Sparrow Drive, Isle of Palms, SC 29451. (Answer mailed enquiries only.)   Their QUERY-III database runs on H8s thru Z120s. "REALLY GOOD GUYS"!

LINDLEY SYSTEMS, 8139 E Mawson, Mesa, AZ   85207 -- phone: 602-380-9175. All kinds of neat-OH 8-bit software such as PC89LINK--lets you transfer 8-bit stuff to H/Z100s and peesees over a null-modem cable.   Ask either Bob or Bill for a catalogue, they're Really Fine Fellows!

MAGNOLIA MICROSYSTEMS, 2818 Thorndyke Avenue West, Seattle, WA 98199; phone 206-285-7266 (Pacific Time Zone).   Ask for "Mark". Special memory upgrades and op-systems for H/Z89s & 90s. Trustworthy but slow people.

MICRO COMPUTER REPAIR SERVICE, 2308 Industrial Highway, Ste C Ann Arbor, MI 48104; phone 313-663-3646. D-DRIVE REPAIRS & SALES. Ask for Mike Morris, he's "A SUPER GUY"! (Tell him Lenny sent you.)

MICRONICS TECHNOLOGY, Suite 159, 54 Dalrada Road, Montgomery, AL 36109; phone 205-244-1597 voice, 205-244-0192 bbs CTZ

Darrell C Pelan, pres. Soft & Hardware, '89 hardiscs Catalogue & 8-bit help available. A REALLY GOOD GUY!

New Orleans Data General Services, 7230 Chadbourne Drive, New Orleans, LA 70126; phone 504-241-9388--"Dave". Colour and sound boards for H8, H89. Out of business, but willing to provide tech advice on their products. Dave's ANOTHER GOOD GUY!

QUIKDATA COMPUTER SERVICES, Inc., 2618 Penn Circle, Sheboygan WI 53081; phone 414-452-4172--Henry Fale (Fah-ley) Prop. Mfgr, sales, service, 8-bit machine support & parts; publishes H-SCOOP Heath/Zenith user's newsletter, 24-hour H/Z user BBS.   Ever busy but "A REAL GOOD GUY!"

SIGMASOFT & SYSTEMS, 2433 Winterstone Drive, Dallas TX 75023-7818; 214-596-0116 (Central Time Zone)--Clay Montgomery--hardware/peripherals mfgr, software publisher, hard-ware & tech support, RAM drives, Hi-Res grafix addons for H/Z89s. Catalog & help; A *FANTASTIC* GOOD GUY!

SKYCASTLE COMPUTER PRODUCTS, Box 1412, San Carlos, CA 94070; 415-254-3931 after 6pm Pacific Coast time--ask for Mike. Calligraphy-II and other FANTASTIC dot-matrix graphic printer software products. A REALLY, SUPER-GOOD GUY!

TMSI/LEE HART, 323 West 19th Street, Holland, MI 49423 616-396-5085 (evenings, weekends--usually)   Their motto: "Inovative Products for the H/Z89" Misc. 8-bit hardware items, hardware/software support for '89/90 users. "A NICE GUY & TOP-NOTCH ENGINEER!"

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THER VENDOR NEWS...   OTHER VENDOR NEWS...   OTHER VENDOR NEW
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So maybe you have an H/Z100?! We won't call you renegade for having the next step up from the H/Z90, but since we've been getting so many calls for help from subscribers who've aquired one of these machines, we thought you'd like to know that help (and hardware) is out there!

Get in touch with GERNWARE ENTERPRISES, PO Box 1495, Rome NY 13440, and ask them for their latest product catalogue. In it you'll find listed a Whole Bunch of Neat Z100 Hardware and Public Domain software at most reasonable prices.   For example, their INFO-HZ100 PD LIBRARY SET of 15 discs 15 sells for only $30!   Please note that they accept only cash or cheques--no plastic. And do tell 'em you saw them mentioned here in the SE8HC JOURNAL....

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CTXTS	CP/M 40trk ss,ss TeXT PROcessor Programme, complete with DEMO program & on-disc manual	..........$29.95
CTXTH	CP/M 2-HARD-sector discs w/TeXT PRO as above	..$30.95

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5 - Include LATEST issue's mailing label with ANY order!

Note: We appreciate receiving, reading, & printing subscriber's letters concerned with H/Z 8-bit problems & cures. And we'd like you to send in more articles for us to publish too!

----------------> Detach before filling out & mailing... <----------------

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THANK YOU FOR YOUR ORDER!

Rev #910630

🖳 Society and Journal Policies 🖳

✷ The SEBHC JOURNAL is published once a month and strives to be mailed by the 20th of a month--sometimes we make it! Advt deadline, 10th of each month, holidays & "AOGs" permitting.

✷ Subscriptions: $24.00/year in Canada, Mexico, USA and its' possessions. All subscriptions are mailed FIRST CLASS. Subscriptions start the month following order receipt.   PLEASE MAKE CHEQUES or MONEY ORDERS PAYABLE TO L E GEISLER, NOT "the JOURNAL" or "SEBHC". Current back-issue copies are available at $2.50 each. See order blank for bound volume discounts.

✷ Subscribers are automatically Society of Eight-Bit Heath Computerists members.   Member's subscription number and expiration are clearly printed on mailing labels.   The three member classes are: REGULAR (voting H/Z 8-bit user) ADVER-TISING (one vote/vendor) and ASSOCIATE (non-8-bit computer-ist, library, etc.).   REGULAR members can hold any elective Society office. ASSOCIATE members cannot hold office or vote. The Society's official yearly meeting place and time is announced every July in the JOURNAL. Advance registration of US$25 for each attendee no later than 30 July, please.

✷ All advertising is printed Free Of Charge. Vendors: Please do submit your B&W "camera-ready" ad copy, 7"w x 9"h (1 page to an issue) no later than the 10th of month in which it's scheduled to appear. All Society members can run one new free 250-word (maximum) Unclassified Want Ad every month.

✷ All subsribers/members are urged to submit their H/Z-orien-ted computer articles on disc in standard ASCII format rather than as hard copy. If a word needs to be emphasised or italicised please insert these symbols PRECEEDING the word: [EMPH] for emphasise, [ITAL] for italics. We'll return your disc after copying it and will gladly copy any SEBHC JOURNAL software disc onto it. Note: We can't pay authors but we do extend their subscription another year for a published article.

✷ The SEBHC JOURNAL is composed, edited and published by L E Geisler at 895 Starwick Drive, Ann Arbor, MI 48105. Phone 313-662-0750, 9am - 6pm Eastern Time Zone, Mon thru Fri only. Other times (EMERGENCIES ONLY): 313-769-6052 (residence).

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